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Atty. Dkt. No. 034827-2601



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Su Chen

Title: OXYGEN-18 LABELED
ORGANIC ACIDS AND USE IN
DIAGNOSING METABOLIC
DISORDERS

Appl. No.: 10/696,051

Filing Date: 10/28/2003

Examiner: Unassigned

Art Unit: 1651

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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Mail Stop Amendment (IDS)
Commissioner for Patents
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Sir:

Submitted herewith on Form PTO/SB/08 is a listing of documents known to Applicant in order to comply with Applicant's duty of disclosure pursuant to 37 CFR §1.56. A copy of each listed document is being submitted to comply with the provisions of 37 CFR §1.97 and §1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing date of the first Office Action on the merits.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

Applicant respectfully requests that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO/SB/08 be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

Date

August 2, 2004

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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/696,051
Filing Date	10/28/2003
First Named Inventor	Su Chen
Group Art Unit	1651
Examiner Name	Unassigned
Attorney Docket Number	034827-2601

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A1	CHEN and CARVEY, "Validation of Liquid-Liquid Extraction Followed by Flow-Injection Negative Ion Electrospray Mass Spectrometry Assay to Topiramate in Human Plasma," <i>Rapid Commun Mass Spectrom</i> , 15:159-163 (2001)	
	A2	CLAY and MURPHY, "New Procedure for Isolation of Amino Acids Based on Selective Hydrolysis of Trimethylsilyl Derivatives," <i>Journal of Chromatography</i> , 164: 417-426 (1979)	
	A3	GLEISPACH, <i>et al.</i> , "Neuroblastoma Screening: Labeling of HVA and VMA for Stable Isotope Dilution Gas Chromatography-Mass Spectrometry," Supplement to <i>Nutrition</i> , 11: 604-606 (1995)	
	A4	HEALES and LEONARD, "Diagnosis of Medium Chain Acyl CoA Dehydrogenase Deficiency by Measurement of <i>cis</i> -4-Decenoic Acid in Dried Blood Spots," <i>Clinica Chimica Acta</i> , 209: 61-66 (1992)	
	A5	IKEGAWA <i>et al.</i> , "Separation and Detection of Bile Acid 24-Glucuronides in Human Urine by Liquid Chromatography Combined With Electrospray Ionization Mass Spectrometry." <i>Analytical Sciences</i> , 15: 625-631 (1999)	
	A6	JAKOBS and de GRAUW, "A Fatal Case of 2-Keto-, 2-Hydroxy- and 2-Aminoadipic Aciduria: Relation of Organic Aciduria to Phenotype?" <i>Inher. Metab. Dis.</i> 15: 279-280 (1992)	

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Sheet	2	of	3	Attorney Docket Number	034827-2601

NON PATENT LITERATURE DOCUMENTS				
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	A7	JORG LEIS <i>et al.</i> , "Synthesis of [¹⁸ O ₂] Valproic Acid and Its Use as an Internal Standard For the Quantitative Measurement by Gas Chromatography-Electron Ionization Mass Spectrometry," <i>Journal of Chromatography B</i> , 784: 69-75 (2003)		
	A8	KUSHNIR <i>et al.</i> , "Analysis of Dicarboxylic Acids by Tandem Mass Spectrometry. High-Throughput Quantitative Measurement of Methylmalonic Acid in Serum, Plasma and Urine." <i>Clin Chem</i> 47(11): 1993-2002 (2001)		
	A9	LIEBICH and FÖRST, "Hydroxycarboxylic and Oxocarboxylic Acids in Urine: Products From Branched-Chain Amino Acid Degradation and From Ketogenesis," <i>Journal of Chromatography</i> , 309: 225-242 (1984)		
	A10	MAGERA <i>et al.</i> , "Determination of Homovanillic Acid in Urine by Stable Isotope Dilution and Electrospray Tandem Mass Spectrometry," <i>Clinica Chimica Acta</i> , 306: 35-41 (2001)		
	A11	MIRGORODSKAYA <i>et al.</i> , "Quantitation of Peptides and Proteins by Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Using ¹⁸ O-Labeled Internal Standards," <i>Rapid Commun. Mass Spectrom.</i> , 14: 1226-1232 (2000)		
	A12	MURPHY and CLAY, "Synthesis and Back Exchange of ¹⁸ O Labeled Amino Acids For Use as Internal Standards With Mass Spectrometry." <i>Biomedical Mass Spectrometry</i> , Vol. 6, No. 7: 309-314 (1979)		
	A13	PITT <i>et al.</i> , "Comprehensive Screening of Urine Samples For Inborn Errors of Metabolism by Electrospray Tandem Mass Spectrometry," <i>Clin Chem</i> 48(11): 1970-1980 (2002)		
	A14	SHIGEMATSU <i>et al.</i> , "A Simple Method of Determining 4-Hydroxyisovaleric Acid and Its Level in a Patient with Isovaleric Acidemia," <i>Clinica Chimica Acta</i> , 138: 333-336 (1984)		
	A15	SWEETMAN, "Organic Acid Analysis," <i>In</i> (Hommes, Ed.) <i>Techniques in diagnostic human biochemical genetics</i> Wiley-Liss: New York, 143-176 (1991)		
	A16	TRUSCOTT <i>et al.</i> , "The Identification of 3-Keto-2-Methylvaleric Acid and 3-Hydroxy-2-Methylvaleric Acid in a Patient With Propionic Acidemia," <i>Biomedical Mass Spectrometry</i> , 6: 294-300 (1979)		
	A17	TSERNG <i>et al.</i> , "Urinary 3-Hydroxyadipic Acid 3,6-Lactone: Structural Identification and Effect of Fasting in Adults and Children," <i>Metabolism</i> , 38: 655-661 (1989)		
	A18	VAN ROOYEN <i>et al.</i> , "Identification of the Stereoisomeric Configurations of Methylcitric Acid Produced by <i>si</i> -Citrate Synthase and Methylcitrate Synthase Using Capillary Gas Chromatography-Mass Spectrometry," <i>J. Inher. Metab. Dis.</i> , 17: 738-747 (1994)		
	A19	VELDINK <i>et al.</i> , "Oxygen Transfer in the Enzymatic Conversion of ¹⁸ O-Labelled Linoleic Acid Hydroperoxide into the 12-Keto-13-Hydroxy-Octadec-CIS-9-Enoic Acid," <i>FEBS Letters</i> , 7: 188-190 (1970)		

Examiner Signature		Date Considered	
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	A20	YOUHNOVSKI, <i>et al.</i> , "Determination of Hydroxyoctadecadienoic Acids," <i>Z. Naturforsch.</i> , 58c: 268-279 (2003)	
	A21	ZYTKOVICZ <i>et al.</i> , "Tandem Mass Spectrometric Analysis for Amino, Organic, and Fatty Acid Disorders in Newborn Dried Blood Spots: A Two-Year Summary From the New England Newborn Screening Program." <i>Clin Chem</i> 47(11): 1945-1955 (2001)	

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